Alfredo Pá°½na

List of Publications by Year
in descending order

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81	3,008	147566 31	168136 53
papers	citations	h-index	g-index
114	114	114	1939
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Wind turbine wake models developed at the technical university of Denmark: A review. Renewable and Sustainable Energy Reviews, 2016, 60, 752-769.	8.2	229
2	Evaluation of the wind direction uncertainty and its impact on wake modeling at the Horns Rev offshore wind farm. Wind Energy, 2014, 17, 1169-1178.	1.9	154
3	Evaluating winds and vertical wind shear from Weather Research and Forecasting model forecasts using seven planetary boundary layer schemes. Wind Energy, 2014, 17, 39-55.	1.9	131
4	Wind climate estimation using WRF model output: method and model sensitivities over the sea. International Journal of Climatology, 2015, 35, 3422-3439.	1.5	124
5	Offshore wind climatology based on synergetic use of Envisat ASAR, ASCAT and QuikSCAT. Remote Sensing of Environment, 2015, 156, 247-263.	4.6	124
6	Offshore wind profiling using light detection and ranging measurements. Wind Energy, 2009, 12, 105-124.	1.9	121
7	SAR-Based Wind Resource Statistics in the Baltic Sea. Remote Sensing, 2011, 3, 117-144.	1.8	97
8	Spatial and temporal variability of winds in the Northern European Seas. Renewable Energy, 2013, 57, 200-210.	4.3	92
9	Measurements and Modelling of the Wind Speed Profile in the Marine Atmospheric Boundary Layer. Boundary-Layer Meteorology, 2008, 129, 479-495.	1.2	88
10	Complex terrain experiments in the New European Wind Atlas. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2017, 375, 20160101.	1.6	82
11	Comparison of the atmospheric stability and wind profiles at two wind farm sites over a long marine fetch in the North Sea. Wind Energy, 2011, 14, 767-780.	1.9	75
12	On the application of the Jensen wake model using a turbulenceâ€dependent wake decay coefficient: the Sexbierum case. Wind Energy, 2016, 19, 763-776.	1.9	73
13	Ten Years of Boundary-Layer and Wind-Power Meteorology at HÃ¸vsÃ¸re, Denmark. Boundary-Layer Meteorology, 2016, 158, 1-26.	1.2	72
14	Remote Sensing Observation Used in Offshore Wind Energy. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2008, 1, 67-79.	2.3	71
15	Atmospheric stabilityâ€dependent infinite windâ€farm models and the wakeâ€decay coefficient. Wind Energy, 2014, 17, 1269-1285.	1.9	71
16	On the lengthâ€scale of the wind profile. Quarterly Journal of the Royal Meteorological Society, 2010, 136, 2119-2131.	1.0	70
17	Lidar Scanning of Momentum Flux in and above the Atmospheric Surface Layer. Journal of Atmospheric and Oceanic Technology, 2010, 27, 959-976.	0.5	64
18	Wind Farm Wake: The Horns Rev Photo Case. Energies, 2013, 6, 696-716.	1.6	60

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19	Comparing mixing-length models of the diabatic wind profile over homogeneous terrain. Theoretical and Applied Climatology, 2010, 100, 325-335.	1.3	59
20	The Wind Profile in the Coastal Boundary Layer: Wind Lidar Measurements and Numerical Modelling. Boundary-Layer Meteorology, 2013, 147, 469-491.	1.2	55
21	Using Satellite SAR to Characterize the Wind Flow around Offshore Wind Farms. Energies, 2015, 8, 5413-5439.	1.6	55
22	Weibull Wind-Speed Distribution Parameters Derived from a Combination of Wind-Lidar and Tall-Mast Measurements Over Land, Coastal and Marine Sites. Boundary-Layer Meteorology, 2016, 159, 329-348.	1.2	51
23	Charnockâ€™s Roughness Length Model and Non-dimensional Wind Profiles Over the Sea. Boundary-Layer Meteorology, 2008, 128, 191-203.	1.2	50
24	Length Scales of the Neutral Wind Profile over Homogeneous Terrain. Journal of Applied Meteorology and Climatology, 2010, 49, 792-806.	0.6	50
25	Wind characteristics in the North and Baltic Seas from the QuikSCAT satellite. Wind Energy, 2014, 17, 123-140.	1.9	48
26	Hub Height Ocean Winds over the North Sea Observed by the NORSEWInD Lidar Array: Measuring Techniques, Quality Control and Data Management. Remote Sensing, 2013, 5, 4280-4303.	1.8	42
27	Wind Class Sampling of Satellite SAR Imagery for Offshore Wind Resource Mapping. Journal of Applied Meteorology and Climatology, 2010, 49, 2474-2491.	0.6	41
28	Atmospheric stability and turbulence fluxes at Horns Revâ€"an intercomparison of sonic, bulk and WRF model data. Wind Energy, 2012, 15, 717-731.	1.9	39
29	Turbulence characterization from a forward-looking nacelle lidar. Wind Energy Science, 2017, 2, 133-152.	1.2	34
30	Modeling large offshore wind farms under different atmospheric stability regimes with the Park wake model. Renewable Energy, 2014, 70, 164-171.	4.3	33
31	The HÃ¸vsÃ¸re Tall Wind-Profile Experiment: A Description of Wind Profile Observations in the Atmospheric Boundary Layer. Boundary-Layer Meteorology, 2014, 150, 69-89.	1.2	33
32	Observations of the atmospheric boundary layer height under marine upstream flow conditions at a coastal site. Journal of Geophysical Research D: Atmospheres, 2013, 118, 1924-1940.	1.2	29
33	Extrapolating Satellite Winds to Turbine Operating Heights. Journal of Applied Meteorology and Climatology, 2016, 55, 975-991.	0.6	29
34	Long-Term Profiles of Wind and Weibull Distribution Parameters up to 600 m in a Rural Coastal and an Inland Suburban Area. Boundary-Layer Meteorology, 2014, 150, 167-184.	1.2	27
35	Short-term nighttime wind turbine noise and cardiovascular events: A nationwide case-crossover study from Denmark. Environment International, 2018, 114, 160-166.	4.8	27
36	The RUNE Experimentâ€"A Database of Remote-Sensing Observations of Near-Shore Winds. Remote Sensing, 2016, 8, 884.	1.8	26

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37	Ã˜sterild: A natural laboratory for atmospheric turbulence. Journal of Renewable and Sustainable Energy, 2019, 11, .	0.8	25
38	Impact of Long-Term Exposure to Wind Turbine Noise on Redemption of Sleep Medication and Antidepressants: A Nationwide Cohort Study. Environmental Health Perspectives, 2019, 127, 37005.	2.8	24
39	Long-term exposure to wind turbine noise at night and risk for diabetes: A nationwide cohort study. Environmental Research, 2018, 165, 40-45.	3.7	23
40	The effect of baroclinicity on the wind in the planetary boundary layer. Quarterly Journal of the Royal Meteorological Society, 2015, 141, 619-630.	1.0	22
41	Very short-term forecast of near-coastal flow using scanning lidars. Wind Energy Science, 2018, 3, 313-327.	1.2	22
42	Analysis of diabatic flow modification in the internal boundary layer. Meteorologische Zeitschrift, 2011, 20, 649-659.	0.5	21
43	The turning of the wind in the atmospheric boundary layer. Journal of Physics: Conference Series, 2014, 524, 012118.	0.3	20
44	Wind turbine load validation using lidarâ€based wind retrievals. Wind Energy, 2019, 22, 1512-1533.	1.9	19
45	A method to assess the accuracy of sonic anemometer measurements. Atmospheric Measurement Techniques, 2019, 12, 237-252.	1.2	18
46	Long-Term Exposure to Wind Turbine Noise and Risk for Myocardial Infarction and Stroke: A Nationwide Cohort Study. Environmental Health Perspectives, 2019, 127, 37004.	2.8	17
47	How does turbulence change approaching a rotor?. Wind Energy Science, 2018, 3, 293-300.	1.2	17
48	Pregnancy exposure to wind turbine noise and adverse birth outcomes: a nationwide cohort study. Environmental Research, 2018, 167, 770-775.	3.7	16
49	On wake modeling, wind-farm gradients, and AEP predictions at the Anholt wind farm. Wind Energy Science, 2018, 3, 191-202.	1.2	16
50	Long-term exposure to wind turbine noise and redemption of antihypertensive medication: A nationwide cohort study. Environment International, 2018, 121, 207-215.	4.8	15
51	Wind turbine load validation in wakes using wind field reconstruction techniques and nacelle lidar wind retrievals. Wind Energy Science, 2021, 6, 841-866.	1.2	15
52	Lidar observations of marine boundary-layer winds and heights: a preliminary study. Meteorologische Zeitschrift, 2015, 24, 581-589.	0.5	14
53	Aeroelastic load validation in wake conditions using nacelle-mounted lidar measurements. Wind Energy Science, 2020, 5, 1129-1154.	1.2	13
54	Rossby number similarity of an atmospheric RANS model using limited-length-scale turbulence closures extended to unstable stratification. Wind Energy Science, 2020, 5, 355-374.	1.2	13

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55	Challenges in simulating coastal effects on an offshore wind farm. Journal of Physics: Conference Series, 2017, 854, 012046.	0.3	11
56	Evaluation of idealized large-eddy simulations performed with the Weather Research and Forecasting model using turbulence measurements from a 250â€‰m meteorological mast. Wind Energy Science, 2021, 6, 645-661.	1.2	10
57	Evaluating Mesoscale Simulations of the Coastal Flow Using Lidar Measurements. Journal of Geophysical Research D: Atmospheres, 2018, 123, 2718-2736.	1.2	9
58	The Effect of Averaging, Sampling, and Time Series Length on Wind Power Density Estimations. Sustainability, 2020, 12, 3431.	1.6	9
59	Characterization of offshore vertical wind shear conditions in Southern New England. Wind Energy, 2021, 24, 465-480.	1.9	9
60	Probabilistic estimation of the Dynamic Wake Meandering model parameters using SpinnerLidar-derived wake characteristics. Wind Energy Science, 2021, 6, 1117-1142.	1.2	9
61	The fence experiment â€“ full-scale lidar-based shelter observations. Wind Energy Science, 2016, 1, 101-114.	1.2	9
62	Spectral Properties of ENVISAT ASAR and QuikSCAT Surface Winds in the North Sea. Remote Sensing, 2013, 5, 6096-6115.	1.8	8
63	Assessing Obukhov Length and Friction Velocity from Floating Lidar Observations: A Data Screening and Sensitivity Computation Approach. Remote Sensing, 2022, 14, 1394.	1.8	8
64	Turbulence statistics from three different nacelle lidars. Wind Energy Science, 2022, 7, 831-848.	1.2	7
65	The space-time structure of turbulence for lidar-assisted wind turbine control. Renewable Energy, 2022, 195, 293-310.	4.3	7
66	Turbulence Measurements with Dual-Doppler Scanning Lidars. Remote Sensing, 2019, 11, 2444.	1.8	6
67	A hybrid solution for offshore wind resource assessment from limited onshore measurements. Applied Energy, 2021, 298, 117245.	5.1	5
68	Evaluation of the global-blockage effect on power performance through simulations and measurements. Wind Energy Science, 2022, 7, 875-886.	1.2	5
69	Inflow characterization using measurements from the SpinnerLidar: the ScanFlow experiment. Journal of Physics: Conference Series, 2018, 1037, 052027.	0.3	4
70	Evaluation of two microscale flow models through two wind climate generalization procedures using observations from seven masts at a complex site in Brazil. Journal of Renewable and Sustainable Energy, 2018, 10, .	0.8	4
71	Wind turbine wake characterization using the SpinnerLidar measurements. Journal of Physics: Conference Series, 2020, 1618, 062040.	0.3	4
72	Evaluating planetary boundary-layer schemes and large-eddy simulations with measurements from a 250-m meteorological mast. Journal of Physics: Conference Series, 2020, 1618, 062001.	0.3	3

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73	Lidar Observations and Numerical Simulations of an Atmospheric Hydraulic Jump and Mountain Waves. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033744.	1.2	3
74	Towards Better Wind Resource Modeling in Complex Terrain: A k-Nearest Neighbors Approach. Energies, 2021, 14, 4364.	1.6	3
75	Reply to the Comment by Bergmann on â€œThe HÃ¸vsÃ¸re Tall Wind-Profile Experiment: A Description of Wind Profile Observations in the Atmospheric Boundary Layerâ€. Boundary-Layer Meteorology, 2015, 157, 547-551.	1.2	2
76	Departure from Flux-Gradient Relation in the Planetary Boundary Layer. Atmosphere, 2021, 12, 672.	1.0	2
77	Influence of nacelle-lidar scanning patterns on inflow turbulence characterization. Journal of Physics: Conference Series, 2022, 2265, 022016.	0.3	2
78	Flux-gradient relation and atmospheric wind profiles â€" an exploration using WRF and lidars. Journal of Physics: Conference Series, 2020, 1618, 032032.	0.3	1
79	Wind turbine power performance characterization through aeroelastic simulations and virtual nacelle lidar measurements. Journal of Physics: Conference Series, 2022, 2265, 022059.	0.3	1
80	The fence experiment â€" a first evaluation of shelter models. Journal of Physics: Conference Series, 2016, 753, 072009.	0.3	0
81	A one-year long turbulence simulation using a WRF-LES based modeling system at Ã˜sterild. Journal of Physics: Conference Series, 2022, 2265, 022011.	0.3	0